

ASTD/TDI Project Static Report

Phased Source Area Contamination

Focus Area: Subsurface Contaminants Focus Area

Focus Area Manager: Carl Lanigan, (803) 725-0404

TTP No.: SF09SS11

Principal Investigator: Albert Lamarre, (925) 422-0757

Lead Site: Oakland - Livermore

Project No.: 99-ASTD-31

Technology Vendor(s)/Commercial Partner(s):

Tech ID/TMS No.:

None identified at this time

Related Publication(s): None

Web Page(s):

Description: This project will apply electro-osmosis (EO) as an initial treatment to remove volatile organic compounds (VOCs) from a source area, presently being treated with a pump and treat system. A second phase using Dynamic Underground Stripping/Hydrous Pyrolysis Oxidation (DUS/HPO) will occur the second year if needed. EO uses an electric field to mobilize contaminants present in low permeability zones to an extraction well. DUS uses steam injection to volatilize contaminants, which are then removed through vacuum extraction and pumping. Effluent vapors and water are then treated in surface facilities.

Application: Sites that have VOC and NAPL contamination in fine-grained sediments and where the contamination is found at depths greater than 5 feet.

Location(s): LLNL

Technology(ies):

Dynamic Underground Stripping

Electro-Osmosis

	Funding (\$K):	<u>FY-98</u>	<u>FY-99</u>	<u>FY-00</u>	<u>FY-01</u>	<u>Total</u>
TTP No.:	SF09SS11	\$0	\$552	\$1,881	\$0	\$2,433
Leverage Source:	EM-40					\$2,738
					Funding Total (\$K):	\$5,171

Cost Savings (\$M):	<u>Proposal</u>	<u>Deployment Plan/TTP</u>	<u>Current Focus Area Projection</u>
	Pending	Pending	\$68,700